

ABSTRACT

Disclosed is a method of manufacturing a preform for producing a plastic optical component comprising a graded-index core portion and a cladding portion in which the refractive index of the core portion continuously decreases from its center to the outer radius, and the refractive index of the cladding portion is smaller than that of the center of the core portion by 0.03 or more, comprising a first step of fabricating a polymer hollow tube for the cladding portion in which the inner wall of the polymer hollow tube has an arithmetic mean roughness of less than 0.4 μm ; and a second step of polymerizing a polymerizable composition in the hollow portion of the hollow tube to thereby form the core portion.